

**METHOD AND APPARATUS FOR AUTOMATICALLY APPLYING  
A FLYING SPLICING TAPE TO A ROLL OF SHEET MATERIAL**

**Abstract of the Disclosure**

5           A method and apparatus for automatically applying a flying splicing tape  
to a roll of sheet material. The roll of sheet material is defined by a width and  
includes an outer-most layer. With this in mind, the method includes lifting a  
portion of the outer-most layer away from a remainder of the roll. The lifted  
portion is then cut to form a leading edge that is otherwise spaced from a  
10   remainder of the wound roll. To this end, the cut is made at a defined spacial  
location along the outer-most layer such that the leading edge is radially aligned  
with a defined application line relative to a circumference on the wound portion  
of the roll. In other words, when the outer-most portion is subsequently wound  
back onto the roll, the leading edge will be aligned with the defined application  
15   line. The splicing tape is then applied to the wound portion of the roll at the  
defined application line, such that the splicing tape extends across at least a  
portion of the width of the roll. In one preferred embodiment, the splicing tape  
is applied in a straight fashion relative to an axis of the roll. Finally, the leading  
edge is adhered to an outer surface of the splicing tape. More particularly, the  
20   leading edge is positioned relative to the splicing tape such that the outer-most  
layer covers a first section of the splicing tape, whereas a second section of the  
splicing tape remains exposed. In another preferred embodiment, the applied  
splicing tape is cut to form a trailing end that is substantially aligned with a side  
of the roll.